

CLAIMS

What is claimed is:

1. An application test management system comprising:
a version component that monitors source under test components and test components for changes; and
a test case file component that includes versioning metadata associated with test case and source under test components received from the version component and attributes necessary for query and test management.
2. The system of claim 1, wherein the test case file component includes a pointer to the source under test.
3. The system of claim 1, wherein the test case file component includes a pointer to requirement for test data.
4. The system of claim 1, wherein the test case file component includes a pointer to requirement and/or configuration under test data.
5. The system of claim 1, wherein the test case file component includes a pointer to a test case component.
6. The system of claim 1, wherein the test case file component is loaded into memory or treated as a database to facilitate management operations including at least one of query, reporting, suite composition and scheduling.
7. The system of claim 1, wherein the test case file component is an XML document.
8. The system of claim 7, wherein the XSLT is employed to facilitate management operations including at least one of selection, query, reporting, suit composition, and scheduling.

9. The system of claim 1, wherein the test case file component is located in the source file under test.
10. The system of claim 9, wherein the test case file component is loaded into a test catalog.
11. The system of claim 8, wherein the test case component specified in the test case file component is loaded into the test catalog.
12. The system of claim 11, wherein a test execution component executes the test case on the software under test and generates test results.
13. The system of claim 12, wherein the test results are tagged with the test case component and source under test component versions for historical and/or trend analysis.
14. A test management system comprising:
 - a means for maintaining fine-grained track of a test's relation to a version of software under test; and
 - a means for querying test data to facilitate generation of test management reports.
15. The system of claim 14, wherein the means for maintaining fine-grained track of a test's relation to a version of software under test includes persisting software version information and related test information to an XML file.
16. The system of claim 15, wherein the XML file is transformed utilizing XSLT to enable test data to be queried.

17. A test management methodology comprising:
retrieving metadata regarding test version information in relation to software under test; and
persisting the metadata to a markup language file versioned with test assets and source code.
18. The method of claim 17, wherein version information is retrieved from a version component that monitors changes to source code versions.
19. The method of claim 17, wherein the file is an XML file.
20. The method of claim 19, wherein the file comprises a pointer to at least one of a source under test, requirement under test, and configuration under test.
21. The method of claim 19, further comprising transforming the XML file utilizing XSLT to enable management operations to be performed on the data including at least one of selection, query, reporting, suit composition, and scheduling.
22. A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 17.
23. A testing methodology comprising:
loading a test case in accordance with a test case file stored in a source file;
executing the test case on a source under test; and
generating test results, wherein the test results are version tagged.
24. The method of claim 23, further comprising saving test results to an XML file.
25. The method of claim 23, further comprising publishing the test results to an enterprise data store.

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26. The method of claim 23, wherein the version tags indicate the version of the source under test and the version of the test.

27. A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 23.